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CLAIMS

- A transport device comprising:
- 5 a driving part (20) with at least one driving means (22a-d) for moving said driving part in a number of directions on a surface,
- a carrying part (30) arranged above said driving part and adapted to carry a load,

characterized in that

- said driving part and said carrying part are

 movable in relation to one another in a number of
 directions essentially parallel to said surface,
- said transport device comprising a measuring means (40a, 40b) for measuring a positional difference (Δx , Δy) between said driving part and said carrying part, and
- said driving means being adapted to drive in directions which depend on said positional difference between said driving part and said carrying part.
- The transport device according to Claim 1, in which said driving means comprises at least one wheel
 (22a, 22c).
 - 3. The transport device according to Claim 1, in which said driving means comprises at least one driving belt.
 - 4. The transport device according to any one of Claims 1-3, in which said measuring means comprises strain gauges (40a, 40b).

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- 5. The transport device according to any one of Claims 1-3, in which said measuring means comprises optical sensors (40a, 40b).
- 5 6. The transport device according to any one of Claims 1-3, in which said measuring means comprises a joystick arrangement.
- 7. The transport device according to any one of 10 Claims 1-6, comprising elastic spacers, preferably rubber blocks, arranged between said driving part (20) and said carrying part (30).
- 8. The transport device according to one of Claims 1-6, comprising slide rails arranged between said driving part (20) and said carrying part (30).
- 9. The transport device according to any one of Claims 1-8, in which said driving means (22a, 22c, 24a, 20 24c) are adapted to drive at a speed which is essentially proportional to said positional difference $(\Delta x, \Delta y)$.
- 10. The transport device according to any one of 25 Claims 1-9, in which said driving means (22a, 22c, 24a, 24c) are adapted to drive at a greater speed in a first direction (Δx) than in a second direction (Δy) for the same positional difference.